Table Top Spectrophotometer LX200TS

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Description

Table Top Spectrophotometer LX200TS is based on real-time dual optical path spectrum analysis technology which monitors the energy fluctuation and interference of light source during the measurement guaranteeing the instrument measuring accuracy and the long-term repeatability index. Equipped with an Inter-instrument agreement and provides two kinds of light sources. It adopts reflectance D/8Â° and transmittance D/0Â° geometry to measure both opaque and transparent materials with flexible fixtures to turn the camera viewfinder function for positioning measurement of small samples.

Specifications

Wavelength range	360 nm to 780 nm
Wavelength pitch	10 nm
Sensor	Silicon photodiode array
Grating method	Concave grating
Sphere diameter	152 mm
Half bandwidth	5 nm
Reflectance range	0 to 200%
Resolution	0.0001
Light source	Pulse xenon lamps and LEDs
UV measurement	Including UV, 400nm cutoff, 420nm cutoff, 460nm cutoff
Operating temperature	5°C to 40°C
Storage temperature	20°C to 45°C
Relative humidity	80% RH (at 35°C) below no condensation
Measurement time	SCI/SCE < 2s (single mode) SCI+SCE < 4s
Measurement aperture	Reflectance: XLAV Φ25.4mm/Φ30mm LAVΦ15mm/Φ18mm, MAVΦ8mm/Φ11mm SAVΦ3mm/Φ6mm Transmittance: Φ17mm/Φ25mm (Auto aperture size recognition)
Viewing angles	2° and 10° Standard observer

Transmittance sample size	No limit on sample width and height Thickness ≤ 50mm
Repeatability	ΔE*ab≤0.02 Spectral reflectance/transmittance≤0.1%
Inter-instrument agreement	XLAV ΔE*ab 0.25
Illuminants	A, B, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, U35, DLF, NBF, TL83, TL84, ID50, ID65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2
Display	Spectral data, spectral graph, chromaticity data, color difference data, color difference graph, pass/fail judgment, simulated color, color evaluation, haze, liquid chromaticity, color bias
Color space	CIE LAB, CIE LUV, LCh, Hunter Lab, Yxy, XYZ, Musell, s-RGB, βxy
Chromatic aberration formula	ΔE*ab, ΔE*CH, ΔE*uv, ΔE*cmc, ΔE*94, ΔE*00, ΔEab(hunter), 555 color classification
Chromaticity Index	WI (ASTM E313-20, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube, Berger Stensby), YI (ASTM D1925, ASTM E313-20, ASTM E313-73) Tint (ASTM E313-20), metamerism index Milm, staining fastness, color fastness, ISO brightness, R457, A density, T density, E density, M density, APHA/Hazen/Pt-Co (platinum cobalt index), Gardner (Gardner index), Saybolt (Saybolt index), Astm color, haze total transmittance, hiding power, strength, strength
Lighting/light receiving system	Reflection: d/8(diffuse lighting, 8° direction reception), transmission :d/ 0 (diffuse lighting, vertical direction reception) SCI(including specular reflected light)/SCE(not including specular reflected light) measurement at the same time Compliance with: CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724/1, DIN5033 Teil7, JIS Z8722 Conditions C, ASTM E1164, ASTM-D1003-07

Other functions	Camera framing and positioning The instrument can measure sideways, upwards and downwards (with accessories) Automatic temperature and humidity compensation function
Interface	USB, USB-B, RS-232
Screen size	7 inches capacitive touch screen
Storage memory	8 GB U Disk for data storage and transfer
Power	12V/3A
Dimension	650 x 450 x 450 mm
Weight	11 kg

Features

- 7-inch capacitive touch screen, Android operating system
- Use BCRA series standard color tiles for color transfer and color value traceability to ensure excellent inter-station consistency
- The excellent photoelectric test system scheme of the spectrophotometer makes the repeatability accuracy
- Dual optical paths spectrum analysis technology
- Compatibility with SCI/SCE measurement system
- Inter-instrument agreement
- 4 test apparatus
- Remove sample size limits by allowing users access to the transmission sample compartment
- Four types of UV test modes

Applications

- Used for the color and transmittance measurement in industrial samples like petroleum and oil, textile and yarn, pellet materials and packing material, etc.

Standard Accessories

- Power adapter
- Data cable
- Fixture for transmittance
- USB flash disk

- Black cavity
- White and Green board
- 0% calibration visor cover
- 30mm, 18mm, 11mm and 6mm apertures x 1pcs
- Support table
- Colorimetric dish
- Damping handle

Optional Accessories

- Heating transmission fixture (Including control circuit)
- Vertical bracket
- Pneumatic jacking rod (Including control circuit)
- Small sample holding accessories
- Reflection cubed bracket corrosion-resistant plate (Not removable)
- Fiber test box
- Film fixture
- Trace transmission fixture
- Rod box

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